**Test report for homework AT-2 (TAT training)**

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Ubuntu 16.04 with Apache HTTP Server, MySQL, PHP7 was used.

Test plan:

1. Login with increasing number of users;
2. Posting with different number of users.

**Login: N users in 10 seconds.**

10 users (threads). Average latency – 35 ms.

20 users (threads). Average latency – 39 ms.

50 users (threads). Average latency – 482 ms.

Average latency was rapidly increased. Critical point is in range 40 users (calculated by approximating function by square polynomial).

100 users (threads). Average latency – 1392 ms.

**Posting: N users in 1 second.**

5 users (threads). Average latency – 78 ms.

20 users (threads). Average latency – 575 ms.

Dispersion of latency was increased. Latency became unstable. Average delay dependency is not linear.

20 posts in 1 second is equal to 1200 posts in 1 minute. Average latency of 500 ms is a standard value for this load.

Average delay can be rapidly increased by using large media-files in posts.